

Title (en)

Organic light emitting diode display device and method driving the same

Title (de)

Anzeigevorrichtung mit organischen lichtemittierenden Dioden und Verfahren zu Ansteuerung davon

Title (fr)

Dispositif d'affichage à diode d'affichage électroluminescent organique et son procédé de commande

Publication

EP 2889863 A3 20151216 (EN)

Application

EP 14197258 A 20141210

Priority

KR 20130167966 A 20131231

Abstract (en)

[origin: EP2889863A2] Provided is an OLED display device including a plurality of pixel each of which includes a light emitting element and a cell driver configured to drive the light emitting element. The cell driver includes: a driving switch element serially connected with the light emitting element between a high voltage supply line and a low voltage supply line; a first switch element configured to, in response to a second scan signal, connect a data line with a first node to which a gate electrode of the driving switch element is connected; a second switch element configured to, in response to a first scan signal, apply a third scan signal to a second node to which a source electrode of the driving switch element is connected; and a third switch element configured to, in response to an emission signal, connect the high voltage supply line with a drain electrode of the driving switch element.

IPC 8 full level

G09G 3/32 (2006.01)

CPC (source: EP KR US)

G09G 3/32 (2013.01 - KR); **G09G 3/3233** (2013.01 - EP US); **G09G 3/3258** (2013.01 - US); **G09G 3/3266** (2013.01 - US); **G09G 3/3291** (2013.01 - US); **G09G 2300/0465** (2013.01 - EP US); **G09G 2300/0819** (2013.01 - EP US); **G09G 2300/0852** (2013.01 - EP US); **G09G 2300/0861** (2013.01 - EP US); **G09G 2320/045** (2013.01 - EP US)

Citation (search report)

- [IA] CN 103150992 A 20130612 - AU OPTRONICS CORP
- [A] US 2010053144 A1 20100304 - AKIMOTO HAJIME [JP], et al
- [A] US 2008197785 A1 20080821 - UCHINO KATSUhide [JP], et al
- [A] US 2006244688 A1 20061102 - AHN SEONG J [KR], et al
- [A] CA 2495726 A1 20060728 - IGNIS INNOVATION INC [CA]
- [A] EP 2189967 A2 20100526 - SAMSUNG MOBILE DISPLAY CO LTD [KR]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2889863 A2 20150701; **EP 2889863 A3 20151216**; **EP 2889863 B1 20210127**; CN 104751789 A 20150701; CN 104751789 B 20180105; KR 20150080198 A 20150709; US 2015187281 A1 20150702; US 9691330 B2 20170627

DOCDB simple family (application)

EP 14197258 A 20141210; CN 201410820906 A 20141224; KR 20130167966 A 20131231; US 201414586587 A 20141230